

# Schottky barrier diode

# RSX1001T3

## Applications

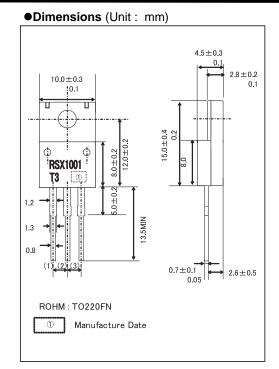
Switching power supply

## Features

- 1) Cathode common type.
- (TO-220)
- 2) Low I<sub>R</sub>
- 3) High reliability

#### Construction

Silicon epitaxial planer



#### Structure



## ●Absolute maximum ratings (Ta=25°C)

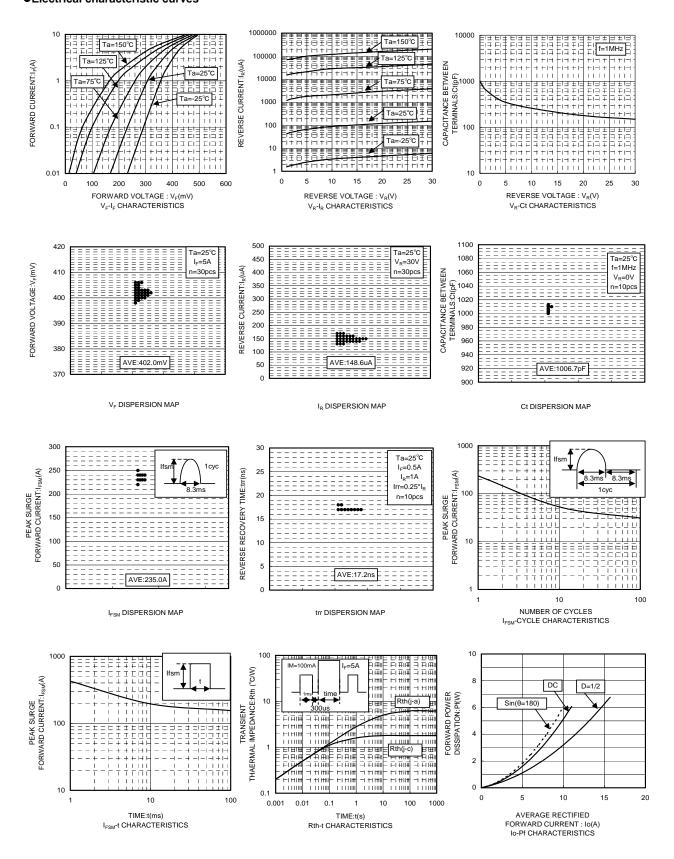
Parameter	Symbol	Limits	Unit					
Reverse voltage (repetitive peak)	$V_{RM}$	30	V					
Reverse voltage (DC)	$V_R$	30	V					
Average rectified forward current (*1)	lo	10	Α					
Forward current surge peak (60Hz / 1cyc) (*1)	I <sub>FSM</sub>	150	Α					
Junction temperature	Tj	150	°C					
Storage temperature	Tstg	-40 to +150	°C					

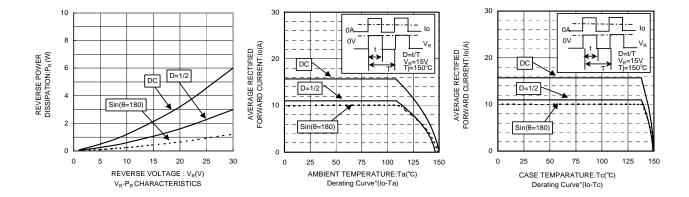
<sup>(\*1)</sup>Business frequencies, Rating of R-load, 1/2 lo per diode, Tc=132°C

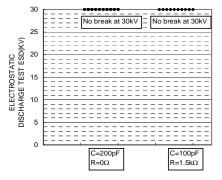
# ●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	0.45	V	I <sub>F</sub> =5A
Reverse current	I <sub>R</sub>	-	-	500	μΑ	V <sub>R</sub> =30V
Reverse recovery time	θјс	-	-	2.5	°C/W	junction to case

#### Electrical characteristic curves







ESD DISPERSION MAP

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